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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,508	01/28/2004	Ban Kuan Koay	70030730-1	5958
	57299 7590 03/08/2007 AVAGO TECHNOLOGIES, LTD.		EXAMINER	
P.O. BOX 1920			SAID, MANSOUR M	
DENVER, CO 80201-1920			ART UNIT	PAPER NUMBER
			2629	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/767,508	KOAY ET AL.				
Office Action Summary	Examiner	Art Unit				
	MANSOUR M. SAID	2629				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on <u>28 January 2004</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-9 is/are allowed. 6) Claim(s) 10-18 is/are rejected. 7) Claim(s) 19-24 is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/19/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 10 recites the limitation "said light emitted" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claim 18 is rejected under 35 U.S.C. 102(e) as being anticipated by Huppi (7,168,047 B1).

Huppi teaches an optical navigation device (optical mouse, (figure 10, (150)) comprising: a light source (light emitter, (figure 10, (182)) that emits light onto a surface (column 11, lines 45-61), wherein light reflected from said surface is used by said optical navigation device to detect movement relative to said surface (figures 2-10, column 2, line 60 and through column line 17); and a light-regulating device coupled to said light source to measure light reflected from

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said surface so as to regulate light emitted from said light source (figures 2-10, column 2, lines 1-17, column 2, line 60 through column line17 and column 11, lines 40-61).

Allowable Subject Matter

5. Claims 1-9 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-9 are allowed since certain key features of the claimed invention are not taught or fairly suggested by prior art. In claim, "wherein light received by said sensor is used to measure movement of said optical navigation device relative to said surface; and a light-sensitive device coupled to said light source, said light-sensitive device disposed to receive light from said light source to regulate light emitted from said light source according to a level of light received at said light-sensitive device.

- 6. Claims 10-17 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 7. Claims 19-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: "a light-sensitive device to generate an output having a magnitude that corresponds to a level of light received by said light-sensitive device from said light source; and an electronic circuit

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coupled to said light-sensitive device, said electronic circuit comparing said output to a threshold

and generating an output signal that indicates whether or not said threshold is met".

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Obermeyer et al. (2005/0162389 A1) teach multi-axis joysticks and multi-axis optical

displacement measurement means.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mansour M. Said whose telephone number is 571-272-7679. The

examiner can normally be reached on Monday through Thursday from 8:30-6:00 P.M. The

examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe

whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the

Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

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obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mansour M. Said

3/3/07

RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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